6. System Configuration

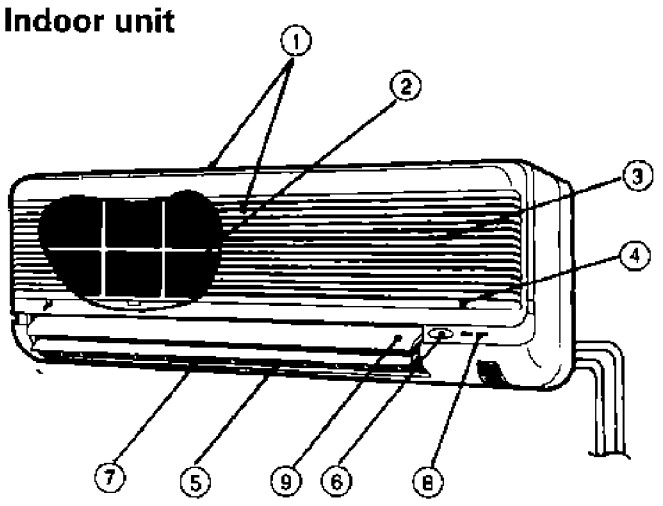
Operation Instructions

After the installation and test operation of the room airconditioner have been completed, it should be operated and handled as described below. Every user would like to know the correct method of operation of the room airconditioner, to check if it is capable of cooling (or heating) well, and to know a clever method of using it.
In order to meet this expectation of the users, giving sufficient explanations taking enough time can be said to reduce about 80% of the requests for servicing. However good the installation work is and however good the functions are, the customer may blame either the room airconditioner or its installation work because of improper handling. The installation work and handing over of the unit can only be considered to have been completed when its handling has been explained to the user without using technical terms but giving full knowledge of the equipment.

<CTK22FVALT, CTK25FVEN>

(1) Indoor and Outdoor Unit

Indoor unit



① Air inlets (top and front)

② Air filters (There are two air filters inside.)

③ Front panel

④ Unit Operation Panel

⑤ Air outlet

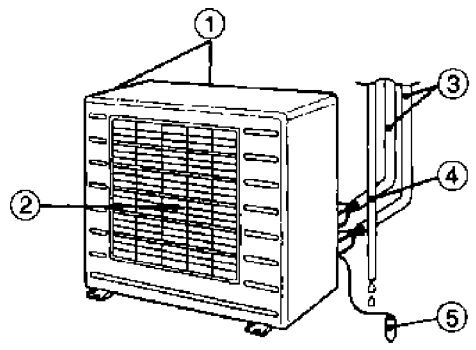
⑥ Model name

⑦ Vertical louvers

⑧ Unit display panel

⑨ Horizontal blades (Flaps)

Outdoor unit



① Air inlets (back and side)

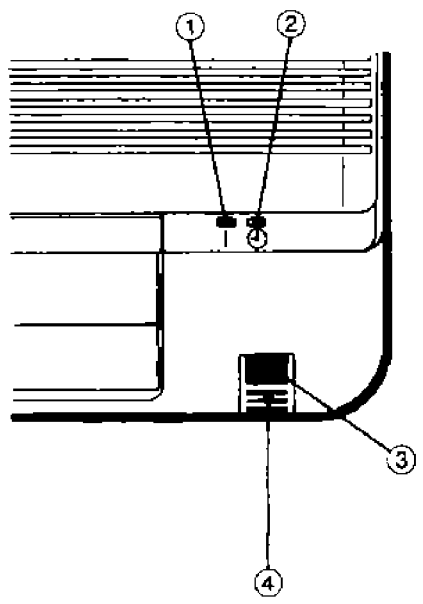
② Air outlet

③ Refrigerant piping and inter-unit cable

④ Drain hose

⑤ Earth rod

(2) Unit Operation Panel and Display Panel

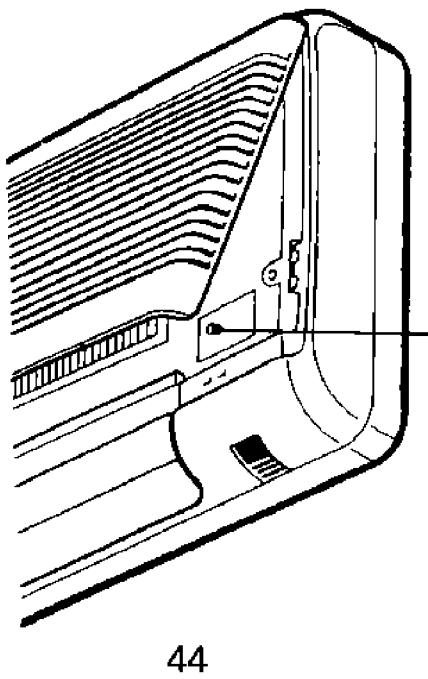


① **OPERATION indicator lamp (green)**
Lights up on system activation irrespective of operation mode.

② **TIMER indicator lamp (green)**
Lights up when "TIMER OFF" countdown is in progress.

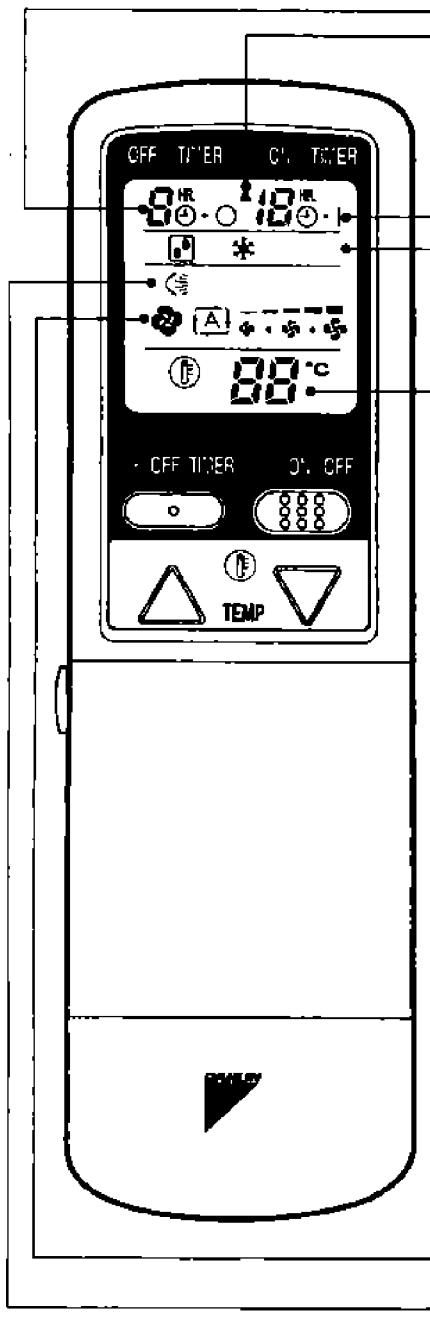
③ **Signal receiver** – Receives signals from the remote controller.

④ **Temperature sensor** – monitors room temperature.



AUXILIARY switch
(Inside here. Open the cover to see it.)

(3) Wireless Remote Controller



In this illustration, each section is shown with all its displays ON for the purpose of explanation. But when in use, only the relevant displays will be ON.

This is displayed when TIMER OFF is used.

This is displayed when signals are transmitted.

This is displayed when TIMER ON is used.

This section displays the temperature setting.

The operation mode is shown by the following symbols.

: PROGRAM DRY

: COOL

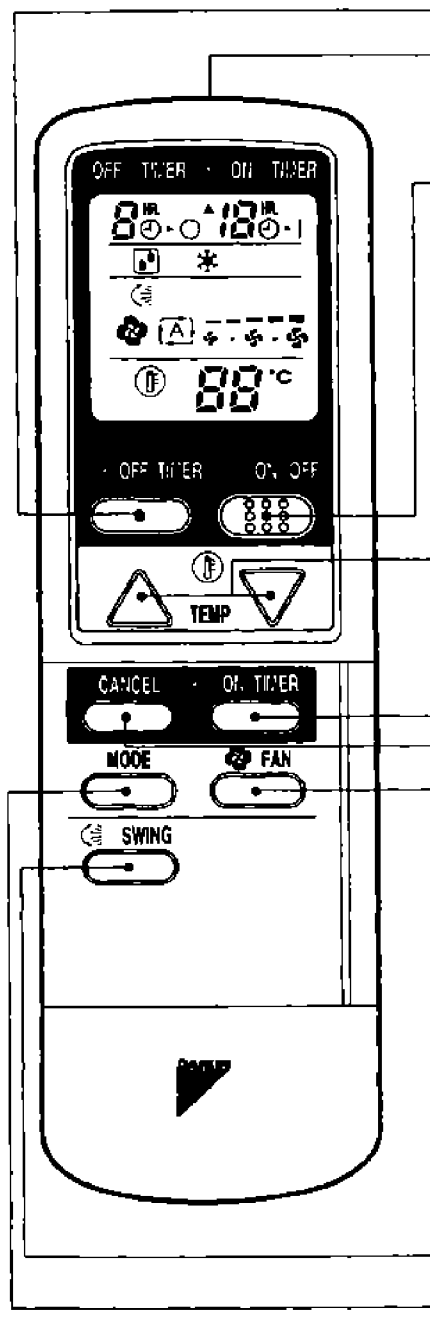
The airflow setting is shown by the following symbols.

: AUTO

: LOW

: HIGH

This is displayed when horizontal blades are swinging.



SIGNAL TRANSMITTER
Sends signals to the air conditioner.

ON/OFF button
Press once to start operation.
Press once more to stop operation.

ROOM TEMPERATURE ADJUSTING buttons
Use these buttons to set the room temperature as you like.
Temperature setting range: 18°C to 32°C

TIMER ON SETTING button

TIMER OFF SETTING button

TIMER CANCEL button

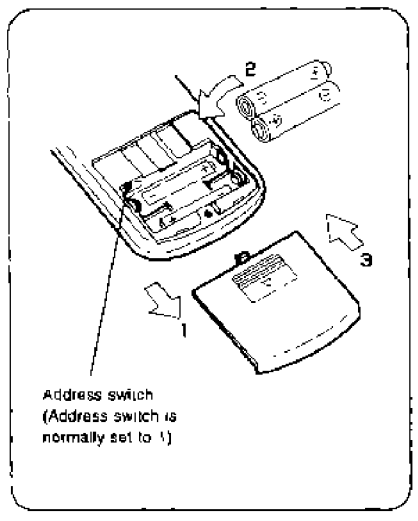
AIR FLOW ADJUSTING button
Five choices are available for air flow setting.

SWING button

OPERATION MODE SELECTOR button

Note
Display monitor function:
You can check or change settings when the air conditioner is stopped. To check, press once the button for the setting you are checking. To change the setting, press the same button again while the display is ON.

(4) Set Up Before Operation



< Setting dry batteries >

1. Slide the back cover of the remote controller in the direction of the arrow and take it off.
2. Set two dry batteries in accordance with the indications of (+) and (–).
3. Set the back cover as before.

Notes on batteries

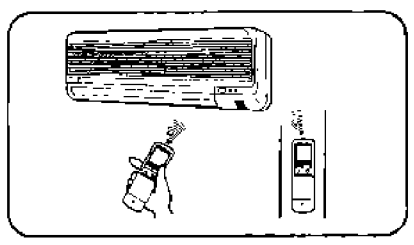
- Replace the batteries with new ones when, on pressing a button, the display shows all figures and letters at the same time and no signal communication takes place.
- Use two LR03 (AAA) batteries.
- Never mix new and old batteries or different types of batteries.
- Never try to charge the batteries.
- Used-up batteries must be taken out all at once and treated correctly

Address switch

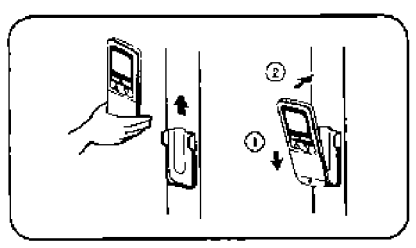
Address switch is used for the installation of 2 units in one room. Contact the shop you purchased this DAIKIN room air conditioner if you would like to have 2 units/room.

A unit will not be able to receive signals from a wireless remote controller when the address switch is set to 2.

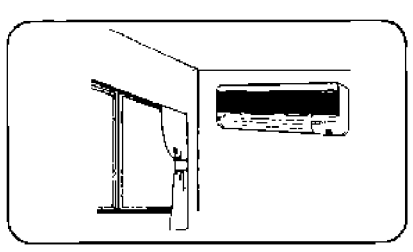
Be sure that it is set to 1.



- When using, aim the signal transmitter at the air conditioner. The operative distance between the remote controller and the air conditioner is about 7m in a straight line.
  A "peep" sound is heard when the unit receives a signal from the remote controller.

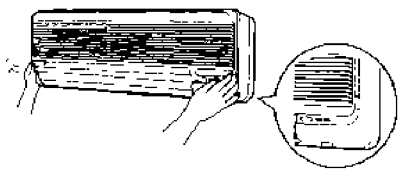


- To prevent loss or damages of the remote controller, fix it on a wall or a pillar using a remote controller holder. First, check that the signals from the remote controller in the place you chose can reach the air conditioner, and then f x it in the place.



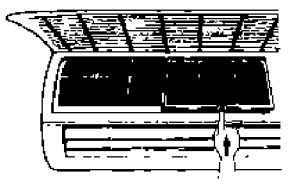
- Avoid fixing the remote controller at such corners as marked by [ ] in the left figure, near a heater, or in a place exposed to sun light.

If the entire liquid crystal display lights and/or the signal is not received when the remote controller's button is pushed, replace the batteries with new ones.

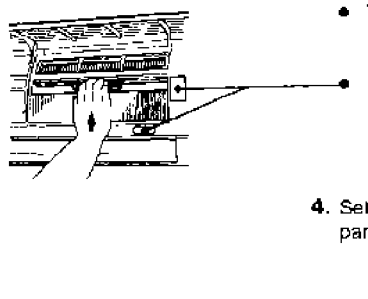


Air Purifying Filter catches pollen, dust, smoke of cigarette, and unpleasant smell.

1. Set your hands at the depressions at both sides of the front panel, and pull it forwards.



2. Push up the knob placed at the center of the air filter once, and pull down to take the air filter out.



3. Hold the Air Purifying Filter by the handle and fix it on the unit.
   - Write the date of setting Air Purifying Filter in the sticker on the filter frame. It can be a reminder for replacement of Air Purifying Filter.
   - Attach the sticker of sample colours on either right or lower part of the front grille.
4. Set the air filter back in place, and close the front panel securely.

• Replacing of Air Purifying Filter

Soiled Air Purifying Filter needs replacing. Air Cleaning Filter should be replaced every three months on average, but if their colour is similar to either of the sample colours, replace them promptly.

How to replace

Press the claws marked with arrow, and remove the frame.

Replace the filter inside, and set the frame back as they were.

As for the order for Air Purifying Filter, please contact the shop you purchased this product.

When you don't need Air Purifying Filters, operate the unit without them.

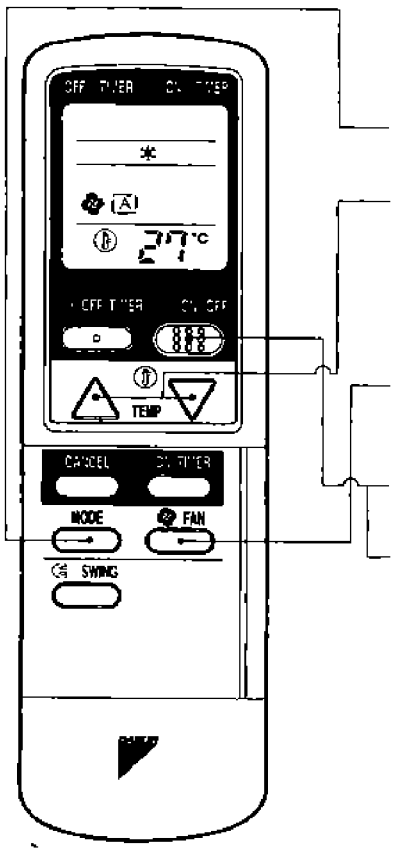
Parts Name	Code Name
Air Purifying Filter (with frame)	KAF492A1
Air Purifying Filter (without frame)	KAF492A2

NOTE

1. Air Purifying Filter can not be used more than once by washing.
2. Using Air Purifying Filters without replacing cause impairment of air flow and operating efficiency

(5) Operation

< COOL Mode Operation >



Turn the safety breaker ON.

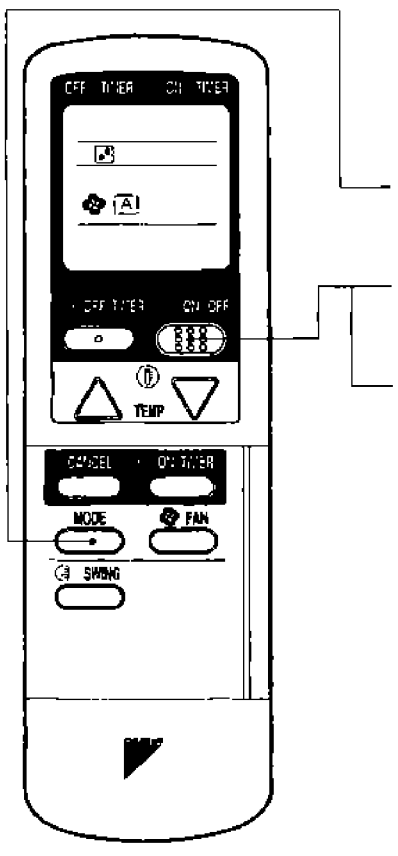
1. **Set the mode to " ☼ (COOL)".**
2. **Adjust the temperature setting.**
   △ - - - UP
   ▽ - - - Down
3. **Select the air flow of your choice.**
4. **Press ON/OFF button.**
   Then OPERATION indicator lamp lights up.

To stop:
Press ON/OFF button.
Then OPERATION indicator lamp goes out.

Note

Temperature setting
The temperature settings are mere guides, and there may be various cases depending on room sizes and room shapes. So adjust the setting until you get a comfortable temperature.

< PROGRAM DRY Operation >



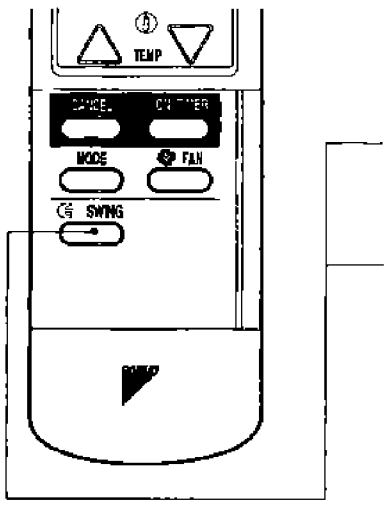
By the microcomputer function, the air conditioner takes away the moisture with minimum temperature decrease.

1. **Set the mode to " (PROGRAM DRY)".**
2. **Press ON/OFF button.**
   Then the OPERATION indicator lamp lights up.

To stop:
Press ON/OFF button.
Then the OPERATION indicator lamp goes out.

This is a microcomputer controlled function that determines the appropriate room temperature and humidity, and cycles the compressor and indoor fan ON and OFF to achieve and maintain them, based on the ambient temperature and himidity at the time of switching on this function.

Note:
- The PROGRAM DRY function is designed primarily for dehumidification and not for lowering room temperature – but remember a dehumidified room will always 'feel' cooler than a humid one.
- PROGRAM DRY operation is not possible in ambients below 18°C.
- There is no need to set the THERMOSTAT SETTING selector or FAN SPEED selector as PROGRAM DRY operates independently of them.



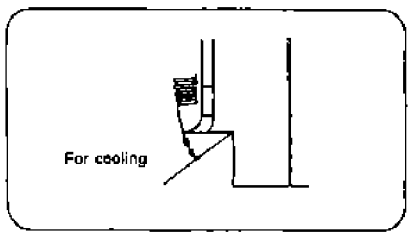
< Adjusting the Air Flow Direction >

Adjusting Vertical Direction
Be sure to use the SWING button to adjust it.

Swing
Press the SWING button. The flap automatically swings according to the operation mode.

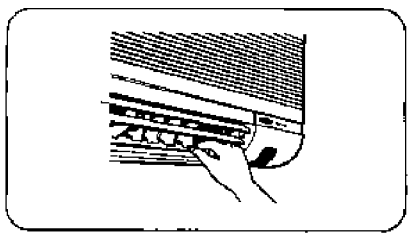
Swing stop
Watching the flap movement, press the SWING button at the position of your choice.

The recommended ranges for stopping the flap are shown left.



Note
Once you stop the flap at the position you like, the position is in the memory. From the next time on, the flap automatically stops at that position.

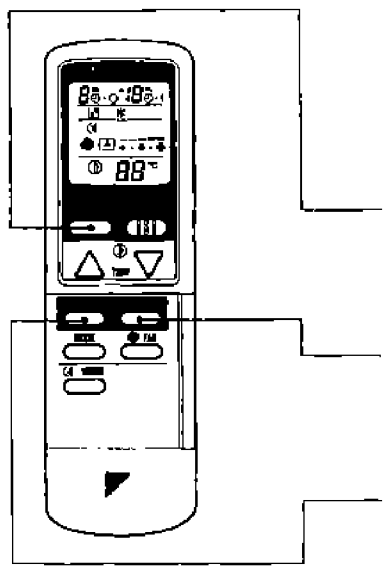
Caution
- Before adjusting the horizontal direction, stop the swing flap at a position convenient for the adjustment, referring to "Adjusting Vertical Direction".
- In COOL or PROGRAM DRY mode, if the flap is stopped at a downward position, the flap automatically moves in about 15 minutes to prevent condensation on it.



Left/Right air flow directional adjustment
The vertical louvers may be adjusted as you please.

Note
If adjustment is carried out during flap swing, the flap may strike your hand. Make adjustments once the swing has completely stopped appropriate position.

< Operation of TIMER >



TIMER OFF stops operation and TIMER ON starts operation when the set time is up.
(TIMER ON and OFF can also be used in combination.)

TIMER OFF
Set the time using the TIMER OFF SETTING button.
One push of the TIMER OFF SETTING button adds one hour to the time setting.
The maximum possible setting is 9 hours.

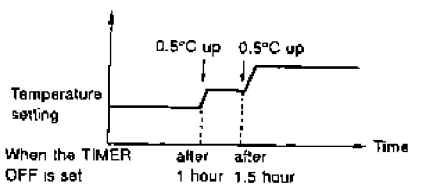
TIMER ON
Set the time using the TIMER ON SETTING button.
One push of the TIMER ON SETTING button adds one hour to the time setting.
The maximum possible setting is 12 hours.

To cancel:
Press the TIMER CANCEL button.

When the TIMER OFF is set;

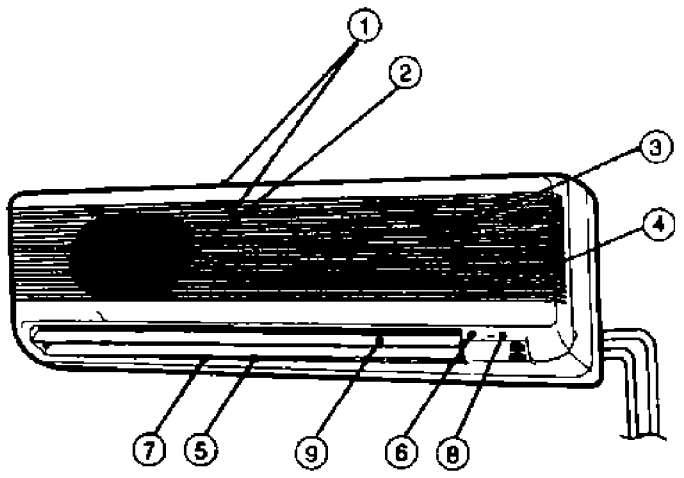
1. The microcomputer controls the room temperature to ensure your comfortable sleep.
2. The air flow setting can be changed as you like.

The temperature setting changes as shown below after TIMER OFF is set.



<CTK30/40FVALT, CTK35/45FVEN>
(1) Indoor and Outdoor Unit

Indoor unit



① Air inlets
(top and front)

② Air filters
(There are two air filters inside.)

③ Front panel

④ Unit Operation Panel

⑤ Air outlet

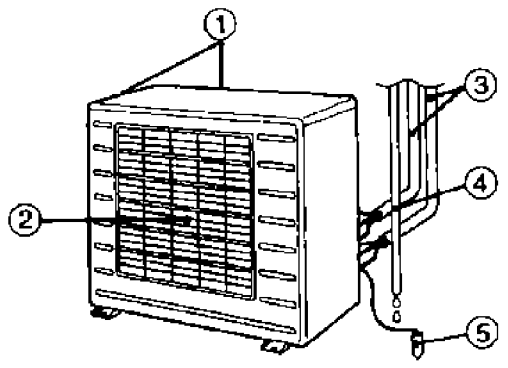
⑥ Model name

⑦ Vertical blades
(flexible louvers)

⑧ Unit display panel

⑨ Horizontal blades
(Flaps)

Outdoor unit



① Air inlets
(back and side)

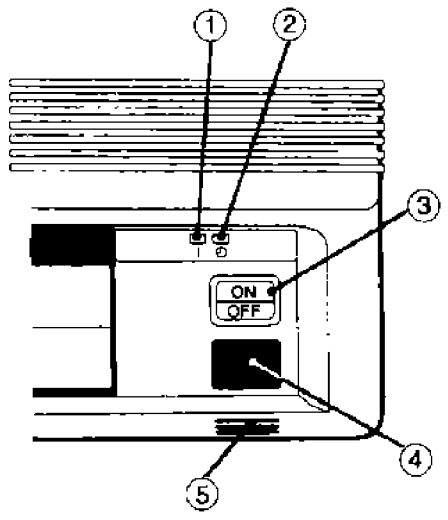
② Air outlet

③ Refrigerant piping and inter-unit cable

④ Drain hose

⑤ Earth rod

(2) Unit Operation Panel & Display Panel



① OPERATION Indicator lamp:
lights up when the system is in operation.

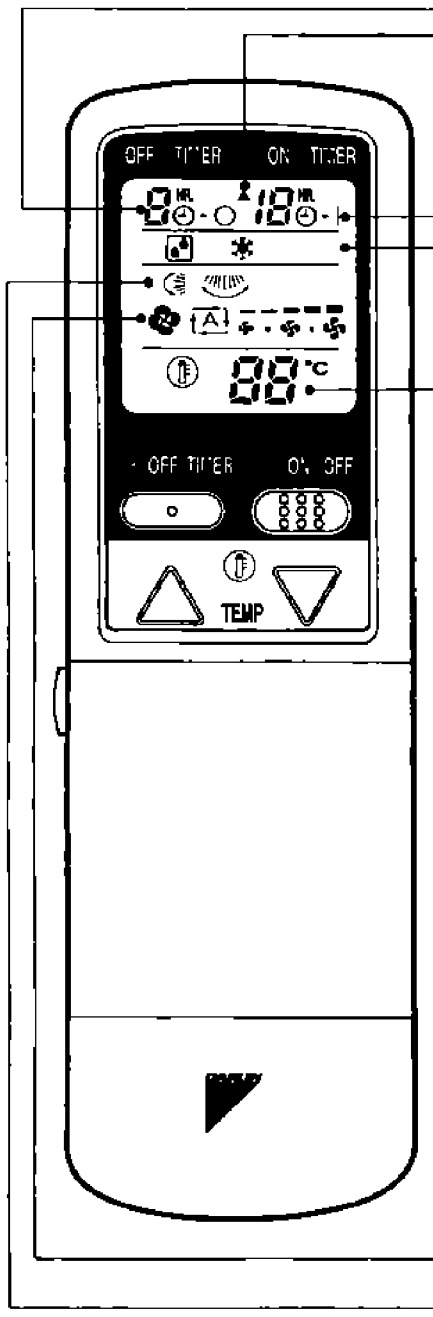
② TIMER Indicator lamp:
lights up when a timer has been set.

③ ON / OFF switch
- Press once to start operation.
  Press once again to stop it.
- The operation mode and the air flow are automatically set to AUTO.
- This switch is useful when the remote controller is missing or the remote controller batteries are exhausted.

④ Signal receiver:
receives signals from the remote controller.

⑤ Temperature sensor:
senses the air temperature around the unit.

(3) Wireless Remote Controller



In this illustration, each section is shown with all its displays ON for the purpose of explanation. But when in use, only the relevant displays will be ON.

This is displayed when TIMER OFF is used.

This is displayed when signals are transmitted.

This is displayed when TIMER ON is used.

This section displays the temperature setting.

The operation mode is shown by the following symbols.

: PROGRAM DRY

: COOL

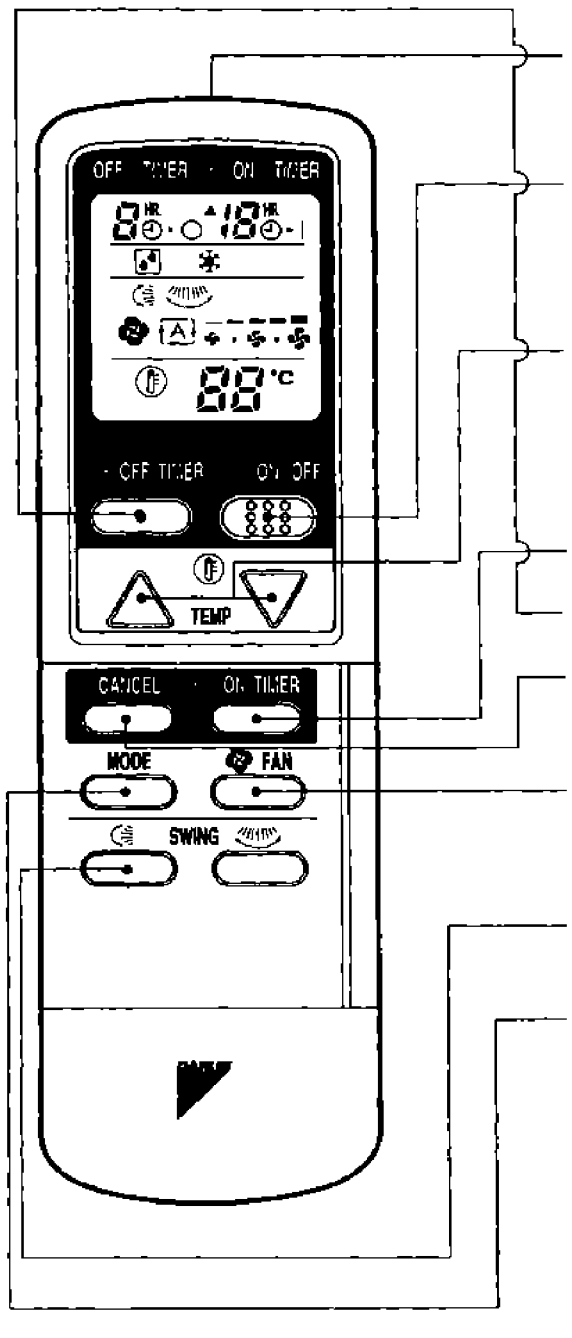
The airflow setting is shown by the following symbols.

: AUTO

: LOW

: HIGH

This is displayed when blades are swinging.



SIGNAL TRANSMITTER
Sends signals to the air conditioner.

ON/OFF button
Press once to start operation.
Press once more to stop operation.

ROOM TEMPERATURE ADJUSTING buttons
Use these buttons to set the room temperature as you like.
Temperature setting range: 18°C to 32°C

TIMER ON SETTING button

TIMER OFF SETTING button

TIMER CANCEL button

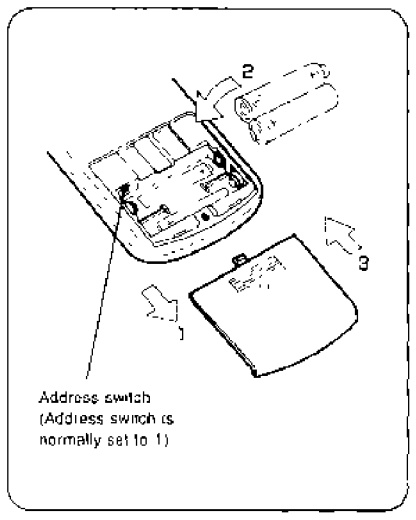
AIR FLOW ADJUSTING button
Five choices are available for airflow setting.

SWING button

OPERATION MODE SELECTOR button

Note
Display monitor function:
You can check or change settings when the air conditioner is stopped. To check, press once the button for the setting you are checking. To change the setting, press the same button again while the display is ON.

(4) Set Up Before Operation



Address switch
(Address switch is normally set to 1)

< Setting dry batteries >

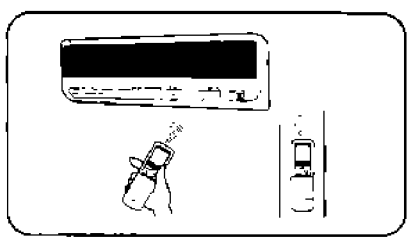
1. Slide the back cover of the remote controller in the direction of the arrow and take it off.
2. Set two dry batteries in accordance with the indications of (+) and (-).
3. Set the back cover as before.

Notes on batteries

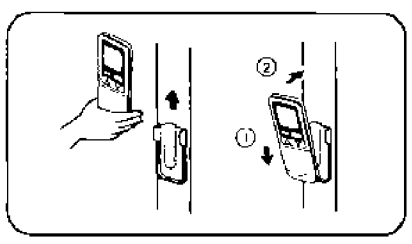
- Replace the batteries with new ones when, on pressing a button, the display shows all figures and letters at the same time and no signal communication takes place
- Use two LR03 (AAA) batteries
- Never mix new and old batteries or different types of batteries.
- Never try to charge the batteries.
- Used-up batteries must be taken out all at once and treated correctly

Address switch

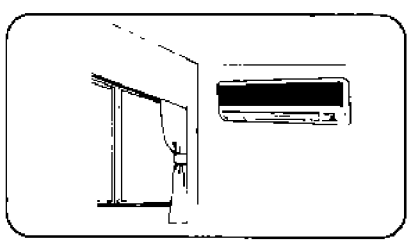
Address switch is used for the installation of 2 units in one room. Contact the shop you purchased this DAIKIN room air conditioner if you would like to have 2 units/room.
A unit will not be able to receive signals from a wireless remote controller when the address switch is set to 2.
Be sure that it is set to 1.



- When using, aim the signal transmitter at the air conditioner. The operative distance between the remote controller and the air conditioner is about 7m in a straight line.
  A "peep" sound is heard when the unit receives a signal from the remote controller

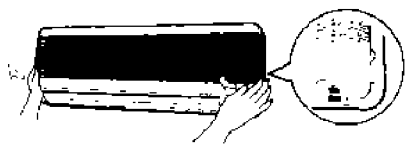


- To prevent loss or damages of the remote controller, fix it on a wall or a pillar using a remote controller holder. First, check that the signals from the remote controller in the place you chose can reach the air conditioner, and then fix it in the place.



- Avoid fixing the remote controller at such corners as marked by ▭ in the left figure, near a heater, or in a place exposed to sun light.

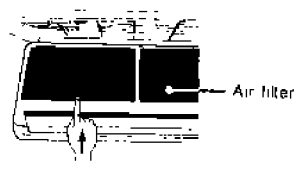
If the entire liquid crystal display lights and/or the signal is not received when the remote controller's button is pushed, replace the batteries with new ones



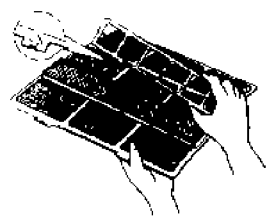
Air Purifying Filter catches pollen, dust, smoke of cigarette, and unpleasant smell.

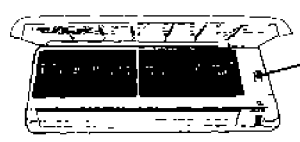
1. Set your hands at the depressions at both sides of the front panel, and pull it forwards.

2. Push up the knob placed at the center of the air filter once, and pull down to take the air filter out.



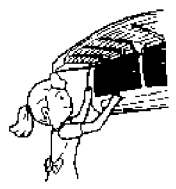
3. Make sure that the net-side (black) of the filter is facing front (up) in the fig.
When setting the frame, the arrows marked on the claws should be pointing upward.
Set 3 claws at the top of the frame first, and then set the rest of 2 claws at the bootm.





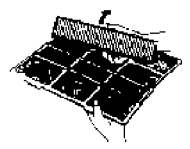
- Put a sticker of sample colours (of dirt) at the lower part of the filter frame.

4. Be sure to set air filters back in place.
Look at page 22 for replacing of air purifying filters.



• Replacing of Air Purifying Filter

Soiled Air Purifying Filter needs replacing. Air Cleaning Filter should be replaced every three months on average, but if their colour is similar to either of the sample colours, replace them promptly.



How to replace
Press the claws marked with arrow, and remove the frame.
Replace the filter inside, and set the frame back as they were.

As for the order for Air Purifying Filter, please contact the shop you purchased this product

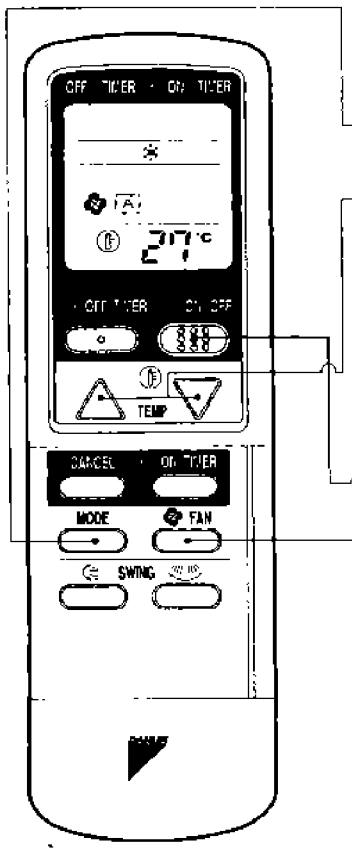
When you don't need Air Purifying Filters, operate the unit without them.

Parts Name	Code Name
Air Purifying Filter (with frame)	KAF96A43
Air Purifying Filter (without frame)	KAF492A2

NOTE
1. Air Purifying Filter can not be used more than once by washing.
2. Using Air Purifying Filters without replacing cause impairment of air flow and operating efficiency.

(5) Operation

< COOL Mode Operation >



Turn the safety breaker ON.

1. **Set the mode to " (COOL)".**

2. **Adjust the temperature setting.**
   - - - UP
   - - - Down

3. **Select the air flow of your choice.**

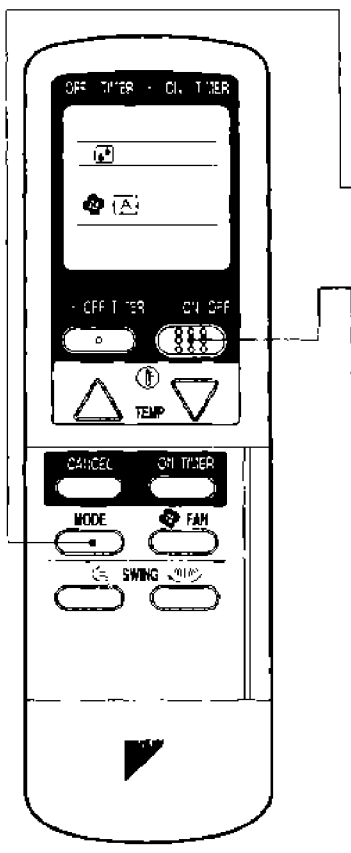
4. **Press ON/OFF button.**
   Then OPERATION indicator lamp lights up.

To stop:
Press ON/OFF button.
Then OPERATION indicator lamp goes out.

Note

Temperature setting
The temperature settings are mere guides, and there may be various cases depending on room sizes and room shapes. So adjust the setting until you get a comfonable temperature

< PROGRAM DRY Operation >



By the microcomputer function, the air conditioner takes away the moisture with minimum temperature decrease.

1. **Set the mode to " (PROGRAM DRY)".**

2. **Press ON/OFF button.**
   Then the OPERATION indicator lamp lights up.

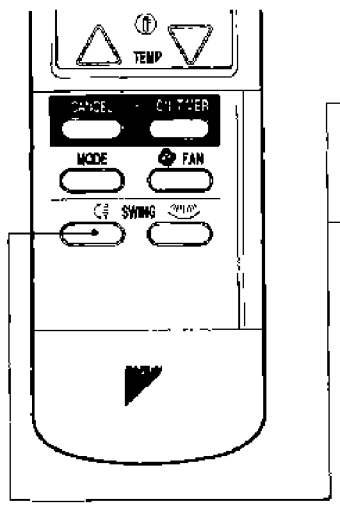
To stop:
Press ON/OFF button.
Then the OPERATION indicator lamp goes out.

This is a microcomputer controlled function that determines the appropriate room temperature and humidity, and cycles the compressor and indoor fan ON and OFF to achieve and maintain them, based on the ambient temperature and himidity at the time of switching on this function.

Note:
- The PROGRAM DRY function is designed primarily for dehumidification and not for lowering room temperature – but remember a dehumidified room will always 'feel' cooler than a humid one.
- PROGRAM DRY operation is not possible in ambients below 18°C.
- There is no need to set the THERMOSTAT SETTING selector or FAN SPEED selector as PROGRAM DRY operates independently of them.

Adjusting the Air Flow Direction

Adjusting the horizontal blades (flaps)
NOTE: To change the flap angle, always use SWING button on the remote controller.



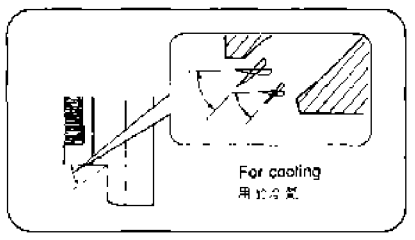
Adjusting Vertical Direction
Be sure to use the SWING button to adjust it.

Swing
Press the SWING button. The flap automatically swings according to the operation mode.

Swing stop
Watching the flap movement, press the SWING button at the position of your choice.

The recommended ranges for stopping the flap are shown left.

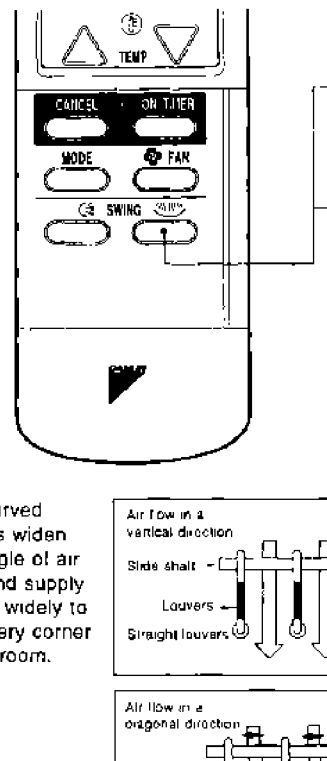
Note
Once you stop the flap at the position you like, the position is in the memory. From the next time on, the flap automatically stops at that position.



Caution
- In COOL or PROGRAM DRY mode, if the flap is stopped at a downward position, the flap automatically moves in about 15 minutes to prevent condensation on it.

Adjusting the Air Flow Direction

Adjusting the vertical blades (louvers)
NOTE: To change the louver angle, always use SWING button on the remote controller



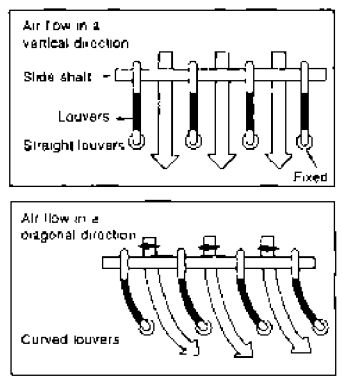
Adjusting Horizontal Direction
Be sure to use the SWING button to adjust it.

Swing
Press the SWING button. The louver automatically swings according to the operation mode.

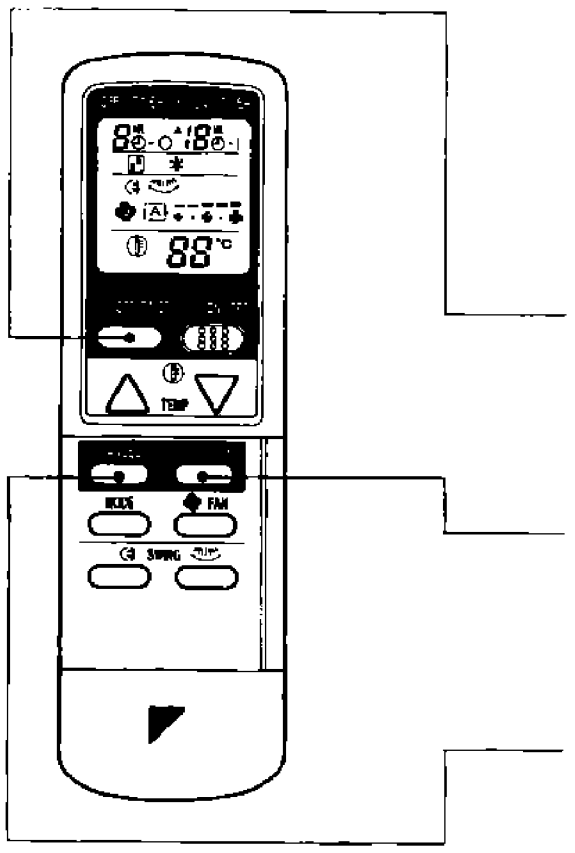
Swing stop
Watching the louver movement, press the SWING button at the position of your choice.

Note
Once you stop the flap at the position you like, the position is in the memory. From the next time on, the flap automatically stops at that position.

The curved louvers widen the angle of air flow and supply the air widely to the every corner of the room.



NOTE
- When the louvers are set curved at more than 30° to the right or left in cooling or program dry operation, the louvers will start moving automatically in 15 minutes to avoid the generation of condensation on them.



< Operation of TIMER >

TIMER OFF stops operation and TIMER ON starts operation when the set time is up.
(TIMER ON and OFF can also be used in combination.)

TIMER OFF
Set the time using the TIMER OFF SETTING button.
One push of the TIMER OFF SETTING button adds one hour to the time setting.
The maximum possible setting is 9 hours.

TIMER ON
Set the time using the TIMER ON SETTING button.
One push of the TIMER ON SETTING button adds one hour to the time setting.
The maximum possible setting is 12 hours.

To cancel:
Press the TIMER CANCEL button.

When the TIMER OFF is set;

1. The microcomputer controls the room temperature to ensure your comfortable sleep.
2. The air flow setting can be changed as you like.

The temperature setting changes as shown below after TIMER OFF is set.